



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24701**

Purchase Order Date 6/20/2014

PO Print Date 6/20/2014

Page Number 1 of 2

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name

Vendor Phone 905 669 9444

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Terms

Net 30

Ship To Phone

Currency

CAD

Ship Via:

VENDOR'S TRUCK

FOB

FCA - (Free Carrier)

Ship Acct:

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|---|---|--------------------------|--------------------------------------|----|--------------------------------|---------------|-------------------|
| 1 | M174B1.250X02.000 | 17-4 SS Bar 1.250 x 2.00 | 7/3/2014 Yes 7/3/2014 | | 12.00 f | \$33.25 | \$398.95 |
| MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150KSI | | | | | | | |

Line Total: \$398.95

| | | | | | | | |
|---|------------|--------------------------|-----------------------------|--|--------------|---------|----------|
| 2 | D6104-003P | 17-4 SS Roundbar 3.25"Od | 7/3/2014 Yes 7/3/2014 | | 8.00 Each | \$34.85 | \$278.80 |
|---|------------|--------------------------|-----------------------------|--|--------------|---------|----------|

AS PER DWG D6104 REV. B
B121162
SIZE: 3.25" X 3.80" LONG
MATERIAL: 17-4 PH AS PER AMS 5643 OR AISI 630

Line Total: \$278.80

Note:

6/20/2014



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Hawkesbury, ON K6A 1K7
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Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24701**

Purchase Order Date 6/20/2014

PO Print Date 6/20/2014

Page Number 2 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

| | | | | | | | |
|---|--------------|--------------------|----------|--------|---|--------|----------|
| 3 | M6061T6S.063 | 6061-T6 .063 Sheet | 7/3/2014 | 288.00 | ✓ | \$2.40 | \$690.00 |
| | | | Yes | sf | | | |
| | | | 7/3/2014 | | | | |

MATERIAL: 6061-T6/T62 ALUMINUM SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209

SP 14-6-27

Line Total: \$690.00

| | | | | | | | |
|---|----------|--------------------------------|----------|------|---|--------|--------|
| 4 | 71401-45 | PROCUREMENT QUALITY CLAUSES | 7/3/2014 | 1.00 | ✓ | \$0.00 | \$0.00 |
| | | | No | | | | |
| | | | 7/3/2014 | | | | |

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality document

Line Total: \$0.00

PO Total: \$1,367.75

CLM

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/20/2014

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

6
 No: PEC 884388
 Ship Date 25 Jun 14 at 13:42 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-695864- 1 Your PO # 24701
 Part # D6104-003 Rel #
 STAINLESS STEEL ROUND BAR 17-4 STAINLESS
 3.25" DIA X 3.8000"

| Heat Number | Tag No | Quantity | PCS | Wt LBS |
|-------------|--------|--------------|-----|--------|
| L6E5 | 307022 | 2 ' 6.4000 " | 8 | 72 |

2) Our Order PEC-695864- 2 Your PO # 24701
 ALUMINUM SHEET 6061 T6
 .0640 Nom X 48.0000" X 144.0000"

| Heat Number | Tag No | Quantity | PCS | Wt LBS |
|-------------|--------|------------|-----|--------|
| 18195/01/00 | 306512 | 288.00 SFT | 6 | 257 |

| TOTAL: | Tags | PCS | LBS |
|--------|------|-----|-----|
| | 2 | 14 | 329 |

Heat Number 18195/01/00
 L6E5 *** Chemical Analysis ***

ADD ON TO 695862 SUR-CHARHE ADDED SHIP COMPLETE

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

27
 No: PEC 884375
 Ship Date 25Jun14 at 12:53 From PFW
 Probill
 Via VIM TRANSFER *rec 26*
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-695862- 1 Your PO # 24701
 STAINLESS STEEL FLAT BAR 17-4 HRAPA
 1.25 X 2.00 X 144.000"

Heat Number
 262505

Tag No
 306993

Quantity
 12 FT

PCS
 1

Wt LBS
 107

TOTAL: Tags 1 PCS 1 LBS 107

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

TOTAL 1 BDL G.W. 120 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
 **** TEL. 800-926-2600 ****

 * WE STOCK STAINLESS STEEL *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

Page: 1 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G

No: PEC 884388

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 25Jun14 at 13:42 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

TOTAL 1 PKG, 1 SKID G.W. 443 LBS

ITEM (1) PKG
ITEM (2) SKID

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Purchase Order Receipt Listing

Page 1 of 1

Friday, June 27, 2014 7:53:16 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO24701 Receipt Dates from 6/27/2014 to 6/27/2014 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

| Purchase Order ID/ Curr Type | Line Nbr/ Insp Req | Project ID | Reference/ Description/ Cert Std | PO U/M / Stock U/M | Required Date Required Qty | Recv Date/ Recv Emp | Recv Qty (PO U/M) | Cost Per Unit/ Recv Value | Inspected Qty/ Rejected Qty (PO U/M) | MRB Qty/ MRB Reject Qty | Book Amt |
|--|-----------------------|------------|--|-----------------------|-------------------------------|------------------------|----------------------|------------------------------|--|----------------------------|----------|
| Vendor ID Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd | | | | | | | | | | | |
| PO24701 CAD | 1 | | M174B1.250X02.000.D 17-4 SS Bar 1.250 x 1 2.00 m129636/121162 | | 7/3/2014 12.0000 | 6/27/2014 DESJ02 | 12.0000 | \$30.66 \$367.95 | 0.0000 0.0000 | 0 0 | \$367.95 |
| | 2 | | D6104-003P 17-4 SS Roundbar 3.25"Od m129636/121162 | Each Each | 7/3/2014 8.0000 | 6/27/2014 DESJ02 | 8.0000 | \$32.14 \$257.14 | 0.0000 0.0000 | 0 0 | \$257.14 |
| | 3 | | M6061T6S.063 6061-T6 .063 Sheet m129636/121162 | sf sf | 7/3/2014 288.0000 | 6/27/2014 DESJ02 | 288.0000 | \$2.21 \$636.39 | 0.0000 0.0000 | 0 0 | \$636.39 |
| | 4 | | 71401-45 PROCUREMENT QUALITY CLAUSES m129636/121162 | | 7/3/2014 1.0000 | 6/27/2014 DESJ02 | 1.0000 | \$0.00 \$0.00 | 0.0000 0.0000 | 0 0 | \$0.00 |

| | |
|---------------------------------------|------------|
| Total Received Quantity: | 309.0000 |
| Total Qty to Inspect (PO U/M): | 0.0000 |
| Total Reject Quantity: | 0.0000 |
| Total Receipt Value: | \$1,261.48 |
| Total Balance Due Quantity: | 0.0000 |

DART AEROSPACE

ALUMINUM SHEET 6061 T6

0640 Nom X 48.0000" X 144.0000"

PART NO.

PO/Ref 24701

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-884388-002

25Jun14

Pg 1/2

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 2 pages (Page# 1)

Customer: COPCON PO#:PEC257560 SO#:LARC59

MTR#:AGCL8257.GIF

Item:063481446061T6 Bundle:6660280016 Heat# 18195/01/00

AMAG

ROLLING

AGCL8257

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85218387

01 / 3

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2014 01 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, ENAS 9100, ISO 14001, NADCAP

| | |
|--|---|
| Auftraggeber / customer: TA CHEN International Inc. 5855 Oblispo Avenue LONG BEACH CA 90805 USA | Bestell Nr. / order no.: N05402 Datum / date: 2013 11 08 |
| Warenempfänger / consignee: Ta Chen International, Inc. Chicago 5850 Centerpoint Ct. GURNEE IL 60031 USA | Auftragsbest. Nr. / order confirm no.: 666028 Datum / date: 2013 11 11 Lieferschein Nr. / delivery note: 85218387 Datum / date: 2014 02 28 |

| | |
|--|--|
| Produkt / product Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: [inch]: 0,063x48,00x144,00 Kundenartikel Nr. / cust. article no.: 063481446061T6/A M | Bedingungen / terms Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/21, 08.1997 ASTM B 209 - 10 AMS 4027N, 07.2008 ASME SB-209, 2011a Sondervorschrift / special terms: |
|--|--|

| AB Pos. ord. Item | BNr/Los/Teillos Lot/No./Part | Guss Nr. cast no. | Werkstoff material | Kolle packno. | Gewicht netto weight net | Stk pcs |
|-------------------|------------------------------|-------------------|--------------------|---------------|--------------------------|---------|
| 01 | 18195/01/00 | 01/0060652/4 | 6061 | 6660280016 | 4060,847 lbs | 95 |
| 01 | 18195/01/00 | 01/0060652/4 | 6061 | 6660280017 | 3893,298 lbs | 91 |

| Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES)) | | | | | | | | | | | |
|--|------------|------|------|------|------|------|------|------|------|-------------|--------------|
| Guss Nr. / cast no. | material | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Others Loch | Others Total |
| 01/0060652/4 | 6061 | | | | | | | | | | |
| | spec. min. | 0,40 | - | 0,15 | - | 0,80 | 0,04 | - | - | - | - |
| | spec. max. | 0,80 | 0,70 | 0,40 | 0,15 | 1,20 | 0,35 | 0,25 | 0,16 | 0,05 | 0,15 |
| | actual | 0,64 | 0,43 | 0,21 | 0,13 | 0,90 | 0,16 | 0,08 | 0,06 | 0,02 | 0,04 |

| Zugprüfung LT / tensile test LT | | | | | | | |
|---------------------------------|----------------|--------------------|------------|-----------|----------|---------|--|
| BNr/Los Lot/No. | Zustand temper | Richtung direction | Tests | UTS [ksi] | YS [ksi] | A2" [%] | |
| | | | spec. min. | 42,0 | 35,0 | 10 | |
| | | | spec. max. | - | - | - | |
| 18195/01 | T6 | LT | 2 from | 46,4 | 37,3 | 16 | |
| 10195/01 | T6 | LT | to | 46,7 | 37,4 | 17 | |

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
 AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6
.0640 Nom X 48.0000" X 144.0000"
PART NO.

PO/Rel 24701

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-884388-002

25Jun14

Signed by: _____

Pg 2/2

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 2 pages (Page# 2)

Customer: COPCON PO#:PEC257560 SO#:LARC59

MTR#:AGCL8257-2.GIF

Item:063481446061T6 Bundle:6660280016 Heat#:18195/01/00

AMAG
ROLLING

AGCI 8257-2

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85218387

01 / 3

Rev.: 0

Seite / page:

2 von / of 2

Datum / date:

2014 01 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, ENAS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests

Biogerversuch: OK. / Transverse bend test: OK.

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkstoffverständiger / factory specialist

Josef Klampfer

E-Mail / e-mail

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clients / Besoeller/Purchaser/Clients
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14007482
Lieferung/Packing list/B.L.

Certificato nr: MEST479185/2014/
Prüfung/Test/Essai

Conferma ordine nr: E13009898
Werkz/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Siglo de fusine productice



Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erneuerung/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poligon de l'inspecteur



Specifiche:
Anforderungen / Requirements / Exigences

VSI-FLAT 2 630 A
AMS 5843R S17400 A
ASTM A564 2010 S17400 A

AISI 630
ASME SA564 2010 S17400 A (0)
ASTM F899 2012 630

AMS 2303 F.
ASTM A370 2012A.

(0) SEC. II PT. A 2010 EDITION ADD. 2011a

Qualità: 630
Werkstoff/Grade/Qualität

Marca: V174
Markenbezeichnung
Brand/Marke

Tolleranza: ASTM A484-11 TABLE 5
Toleranz/Allowance/Tolerance

Punzonatura: 630
Kennzeichnung/Marking/Markierung

| Pos. nr. Pos. nr. Nr. de poste | Oggetto Gegenstand Produit description Descript. du produit | Dimensioni - In Abmessungen Dimension | Lunghezza - In Länge Longueur | Colata Schmelze Heat Coulée | Pezzi Stückzahl Places | Peso - LB Gewicht Poids | Lotto nr. Lote Lot nr. |
|--------------------------------------|--|---|-------------------------------------|--------------------------------------|------------------------------|-------------------------------|------------------------------|
| 0050 | Flat | 2,0000 x 1,2500 | 151 / 152 | 262505 | | 1.922 | 324204820 |

TEST ALLO STATO DI FORNITURA
Test on delivery condition Prüfung auf Lieferbereitschaft test à l'état de livraison Prueba sobre el material así como entregado

| TEST | Provetta/Probestab Specimen/Eprouvette Leng. diam. Spec. Basis Diam. Dicke Weich. Diam. Thickness Leng. diam. epais mm | °F | Posiz. Saggio Position Lagepunkt (1) | Snervamento Bruchgrenze Yield Stress Limite élastique | Snervamento Bruchgrenze Yield Stress Limite élastique | Resistenza Zugfestigkeit Tensile strength Résistance à traction | Allungamento Bruchdehnung Elongation Allongement | Strizione Bruchreduktion Reduction of area Réduction | Resilienza Kerbschlagarbeit Impact Value Resilience | Durezza Härte Hardness Dureté HB |
|------|--|------------|--|--|--|--|---|---|--|--|
| | Valori richiesti 1 Anforderungen/Required values Valeurs demandées | min max | | | | | | | | 363 |
| A | | | | | | | | | | 345 |

| TEST | | min | max |
|------|--------------------------|-----|-------|
| A | Delta Ferrite | | 5,0 |
| A | Grain size for ASTM E112 | | 1,0 % |
| A | RATINGS FREQUENCY | | 6 |
| A | RATINGS SEVERITY | | 1,10 |
| | | | 0 |
| | | | 1,05 |
| | | | 0 |

14/08/27

Sample cond. H900

| Temperatura di Trattamento | | | | | | | | | | | |
|----------------------------|-------------------------------|-----------------|--------------------|----------------------|------------------|-----------------------|--------------|----------------------|------------------|-----------------|------------|
| Tipo Trattamento | Temperatura | Raffreddamento | Permanenza | Tipo Trattamento | Temperatura | Raffreddamento | Permanenza | Tipo Trattamento | Temperatura | Raffreddamento | Permanenza |
| Wärmebehandlung | Temperatur | Abkühlung | Haltezeit | Wärmebehandlung | Temperatur | Abkühlung | Haltezeit | Wärmebehandlung | Temperatur | Abkühlung | Haltezeit |
| Heat Treatment | Temperature | Cooler | Retention | Heat Treatment | Temperature | Cooler | Retention | Heat Treatment | Temperature | Cooler | Retention |
| Traitement Technique | Température | Refroidissement | Mantien | Traitement Technique | Température | Refroidissement | Mantien | Traitement Technique | Température | Refroidissement | Mantien |
| Aging | 900 °F | AIR | 60 " | | | | | | | | |
| TEST | Provetta/Probestab | °F | Posiz. Saggio | Snervamento | Snervamento | Resistenza | Allungamento | Strizione | Resilienza | Durezza | |
| | Specimen/Eprouvette | | Position/Lagepunkt | Bruchgrenze | Bruchgrenze | Zugfestigkeit | Bruchdehnung | Bruchreduktion | Kerbschlagarbeit | Härte | |
| | Leng. diam. Spec. | | | Yield Stress | Yield Stress | Tensile strength | Elongation | Reduction of area | Impact Value | Hardness | |
| | Basis Diam. Dicke | | | Limite élastique | Limite élastique | Résistance à traction | Allongement | Réduction | Resilience | Dureté | |
| | With Diam. Thickness | | | | | | | | | | |
| | Leng. diam. epais | | | | | | | | | | |
| | mm | | 1) | Rp 0,2% | | Rm | E 4d | RA | | HB | |
| | | | | k.s.i. | | k.s.i. | % | % | | | |
| | Valori richiesti 1 | min | | 170 | - | 190 | - | 40 | - | 388 | |
| | Anforderungen/Required values | max | | | | | 10 | | | 444 | |
| | Valeurs demandées | | | | | | | | | | |
| B | 12,5 | 68 | L | 179 | | 198 | 18 | 53 | | 427 | |

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

1) L-Longitudinale/Längs, T-transversale/quers, Q-Tangenziale/tangentiel

Vicenza, 04/03/14
VCO008
(Mod. VCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine
M. Rizzotto

Pagina - 1 di 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403229252

CstAr

CstOr 259378

Wgt.: 107 LB

Date 06/24/2014

John R. Zambetti

COPPER AND BRASS SALES**MATERIAL TYPE****STAINLESS STEEL****AISI SERIES****200 300 400****AND****PRECIPIT HARDENING GRADES****"WARNING"**

INHALATION OF FUMES, FRESHLY GENERATED BY THE WELDING OF STAINLESS STEEL CONTAINING ONE OR MORE OF THE FOLLOWING INGREDIENTS, ZINC, MAGNESIUM OR COPPER, ARE KNOWN TO CAUSE METAL FUME FEVER. INHALATION OF DUST OR FUME FROM STAINLESS STEEL CONTAINING ONE OR MORE OF THE FOLLOWING INGREDIENTS, ALUMINUM, IRON, MANGANESE, SELENIUM, OR TIN, HAS ALSO BEEN REPORTED TO CAUSE METAL FUME FEVER AND MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT AND/OR AGGRAVATE PRE-EXISTING CONDITIONS. TARGET ORGAN IS PRIMARILY THE LUNG.

THIS PRODUCT MAY CONTAIN CHROMIUM, NICKEL OR COBALT. EXPOSURE TO DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE. UNDER HIGH TEMPERATURES, HEXAVALENT CHROMIUM MAY BE PRODUCED, IF IN THE INSOLUBLE FORM, IT IS A CONFIRMED HUMAN CARCINOGEN. THIS PRODUCT MAY ALSO CONTAIN NICKEL AND COBALT. INHALATION OF NICKEL OR COBALT DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT. NICKEL AND COBALT HAVE BEEN IDENTIFIED AS POTENTIAL HUMAN CARCINOGENS.

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE STAINLESS STEEL MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Stainless steel, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales, 22355 West Eleven Mile Road, Southfield, MI 48033, telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

Q U O T A T I O N

No: PEC ST-695109

Quoted By:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)

DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)

DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 20Jun14 Qte Ref
Frt PREPAID Via FOB
Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL
Slp STAN IVERS (905-532-1350)

Q U O T A T I O N

QT No: PEC ST-695109

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

| | | |
|--|-------------|-------------|
| 1 STAINLESS STEEL FLAT BAR 17-4 HRAPA | 1 PCS | 101 LBS |
| 1.25 X 2.00 X 144.000" | | |
| Part No 5-7 DAYS A.R.O | | |
| MATERIAL | 101 LBS @ | 3.9500 LBS |
| ENERGY & CAP SURCHG | 25.0000 LOT | 25.00 |
| 2 STAINLESS STEEL ROUND BAR 17-4 STAINLESS | 8 PCS | 71 LBS |
| 3.25" DIA X 3.8000" | | |
| Part No D6104-003 | | |
| <<<----- SPECIFICATIONS ----->>> | | |
| Ga Tol + 0.0000 - 0.0000 Pc/Tag | 8 | |
| WthTol + 0.0000 - 0.0000 Wt/Skd | | |
| LthTol + 0.0630 - 0.0000 Ty | Pk | |
| MATERIAL | 8 PCS @ | 34.8500 EA |
| | | 278.80 |
| 3 ALUMINUM SHEET 6061 T6 | 6 PCS | 259 LBS |
| .0640 Nom X 48.0000" X 144.0000" | | |
| MATERIAL | 6 PCS @ | 115.0000 EA |
| | | 690.00 |

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

Price in effect at time of shipment.

Price based on receipt of total order.

All weights are theoretical.

All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM ***

Q U O T A T I O N

No: PEC ST-695109

Quoted-By: -
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
 DART AEROSPACE

Quoted Ship To: (1)
 DART AEROSPACE

Q U O T A T I O N

QT No: PEC ST-695109

* WE STOCK STAINLESS STEEL!!!! *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

 *FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE
 *VISIT OUR WEBSITE: www.copperandbrass.com

Order Totals: 3 Items 431 LBS

| Material | Processing | Freight | Other | Taxes | ORDER AMT |
|---------------|------------|---------|-------|--------|-----------|
| 1,367.75 | | | 25.00 | 181.05 | 1,573.80 |
| Taxes: ONHSTS | 181.05 | 0.00 | | 0.00 | 0.00 |

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Monday, June 16, 2014 10:07 AM
To: Chantal Lavoie
Subject: RE: QUOTE

Hi Chantal,

price and delivery on material.

17-4 bar 1.250" x 2" x 12 ft

We offer: 95" Long \$ 106.48 Ft 7-8 days

Thanks

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly.

If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.



BGH Edelstahl Freital GmbH

BGH Edelstahl Freital GmbH, Am Steinwerk 1, 01705 Freital

Energy Steel Products LLC

7404 Railroad

77086 Houston, TX
USAKunden-Bestell-Nr. P02415 + P02562
Customer order no.
Cde. no. de clientBGH-Auftrags-Nr. 34321401/160968
BGH works no.
BGH referenceZertifikat-Nr. 363547 Rev. 2
Certificate no.
No. de certificatBescheinigung über Werkstoffprüfung nach DIN EN 10204
Certificate of material tests according to DIN EN 10204 3.1
Certificat des essais des matériaux selon DIN EN 10204Die Lieferung entspricht den vereinbarten Lieferbedingungen.
Delivery is accordance with the agreed terms of delivery.
La livraison correspond aux conditions de livraison convenues.Zeichen des Lieferwerkes Stempel des Werkstoffsachverständigen
Trade mark Inspector's stamp
Signe du fournisseur Poisson de l'inspecteur

| | | | | | | | | | | | | | |
|--|--------------------|------------------------|---------------|---|-----------|---------|--------|---|-----------------------------------|--------------------------|--------|-------------------------|--|
| Ersaugteilern Product | | | | | | | | | | | | | |
| Slab, flach, gewalzt, gebeizt Flat bars, rolled, pickled | | | | | | | | | | | | | |
| Werkstoff / Quantity UNS S17400 | | | | | | | | | | | | | |
| Anforderungen Requirements | | | | | | | | | | | | | |
| ESP MS - SS3 Rev.1 10/12 UNS S17400-Type 630 ASTM A 564 /A 564M - 10 UNS S17400 (Type 630) ASME II Part A-SA 564 /SA-564M 2011a Ad UNS S17400 SAE-AMS 5643 R 02/08 UNS S17400/Type 630 ASTM F 899 - 12 ASTM A 484 /A 484M - 13a Standard Specification for General Requirements for Stainless Steel Bars, Billets & Forgings Die Verwendung dieses Materials in Luftfahrzeugen ist vom Hersteller BGH untersagt. Bei Zuwiderhandlung kann im Haftungsfall kein Haftungsanspruch gegenüber BGH geltend gemacht werden. The use of this material in aircraft is forbidden by the producer BGH. In case of violation, BGH will exclude total liability in the event of damage. | | | | | | | | | | | | | |
| Beurteilung und Maßanweisung Inspection and dimensional control without objection | | | | Erweiterungs-/Nachbehandlung Welding process/secondary refining Mode of elaboration/traitement ultérieur E - VOD | | | | Verwechslungsprüfung (spektroskopisch) Identification test (spectroscopic analysis) without objection | | | | | |
| Pos. Item | Anzahl Quantity | Abmessung Dimension | | | | | | | | Gewicht Weight | | Schmelz-Nr. Heat-No. | |
| 1 | 44 | 2.000" x 1.250" | | | | | | | | 2116 | | 381368 | |
| Schnelle Heat % | C | Si | Mn | P | S | Cr | Mo | Ni | Cu | Nb | N | Co | |
| 381368 | 0,035 | 0,58 | 0,58 | 0,021 | 0,0020 | 16,15 | 0,23 | 4,10 | 3,25 | 0,272 | 0,0400 | 0,029 | |
| | Ta | Nb/C | Nb+Ta | | | | | | | | | | |
| | 0,004 | 7,771 | 0,276 | | | | | | | | | | |
| Wärmebehandlungszustand Condition of heat treat | | | | | | | | | | | | | |
| Lösungsgeglüht solution annealed | | | | | | | | | | | | | |
| Treatment thermique 1040°C 105' Luft/air | | | | | | | | | | | | | |
| Probe-Nr. Test-No. | Lage Position | Temp. °C | RpD, 2 ksi | | Rm ksi | A5 % | 2 % | Kerbschlagarbeit Impact value | Prübenform Shape of test piece | Härte Hardness HBW | | | |
| Soll/Req. | L | RT | >=170 | | >=190 | >=10 | >=40 | | | >=388 <=444 | | | |
| 060AX1 | L | RT | 179 | | 204 | 16 | 50 | | | 420 | | | |
| Härte/Hardness im Lieferzustand/state of delivery Sollwert/desired value: <= 363 HB; Istwert/actual value: 340 HB | | | | | | | | | | | | | |
| Proben wurden von der Stabverlängerung entnommen x 6" Länge, gemäß ASTM A 370./ Test pieces taken from actual bar prolongation x 6" length according to ASTM A 370. | | | | | | | | | | | | | |
| Anlagen Encl. Annex | | | | Freigegeben Place and date Libéré le 23.10.2013 | | | | Abnahmebeauftragter Inspector representative inspecteur de réception MUELLER | | | | | |



BGH Edelmetall Freital GmbH

BGH Edelmetall Freital GmbH, Am Stadthaus 1, 01705 Freital
Energy Steel Products LLC

7404 Railroad

77088 Houston, TX
USA

Kunden-Beste-Nr. P02415 + P02562
Customer order no.
Cde. no. du client

BGH-Auftrag-Nr. 34321401/160968
BGH works no.
BGH reference

Zertifikats-Nr. 383547 Rev. 2
Certificate no.
No. de certificat

Beschreibung über Werkstoffprüfung nach DIN EN 10204
Certificate of material tests according to DIN EN 10204 3.1
Certificat des essais des matériaux selon DIN EN 10204

Die Lieferung entspricht den vereinbarten Lieferbedingungen.
Delivery in accordance with the agreed terms of delivery.
La livraison correspond aux conditions de livraison convenues.

Zeichen des Lieferanten Trade mark
Signe du fournisseur
Stempel des Werkstoffverständigen Inspector's stamp
Poinçon du l'inspecteur



Mechanische Eigenschaften wurden an Referenzproben ermittelt/
mechanical properties reference test pieces.
Referenz-Wärmebehandlung: H900 (Aushärten 482 +/- 6 °C/1h +/- 5 Min./Luft)
Heat treatment test piece: Cond. H900 (Hardened 482 +/- 6 °C/1h +/- 5 Min./Air)
US-Prüfung/us test SEP 1920 Prüfgr. 4 Größenkl. B: ohne Beanstandung/no objection
Material wurde nicht reparaturgeschweißt./Material no weld repaired.
Material ist quecksilberfrei./Material is free from mercury contamination.
Deltaferrit/ferrite delta: 2,9%
Korngröße/grain size ASTM E 112: 7.0
Beizprobe/pickle test ASTM E 381: S-1 ; R-1 ; C-1
Makrostruktur/macrostructure: ohne Beanstandung/no objection
Mikrogefüge/microstructure: ohne Beanstandung/no objection
Stufendrehprobe/stap-down test AMS 2303: ohne Beanstandung/no objection
Umformgrad/reduction ratio: 97:1
Ursprungsland und Herstellung: GERMANY
Country of origin and manufacture: GERMANY

This report is a copy of original
mill certificate and verifies
that the product meets the
requirements as originally ordered
by Energy Steel Products.

DATE: 11/13/13 VERIFIED BY: [Signature]

| | | |
|--------------------------|--|---|
| Anlagen End. Amaya | Freitags den Place and date 23.10.2013 | Abnehmer auftraggeber Inspector representative Inspecteur de réception MUELLER |
|--------------------------|--|---|

23Jun14 15:08 S A L E S A C K N O W L E D G M E N T No: PEC ST-695864

Sold By:-----
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Ord 23Jun14 Due25Jun14
Frt PREPAID Via VIM TRANSFER FOB CONCORD
Con 96294 PO/Rel 24701
Slp STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053

===== S A L E S A C K N O W L E D G M E N T SO No PEC ST-695864
Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice
=====

1 STAINLESS STEEL ROUND BAR 17-4 STAINLESS 8 PCS 71 LBS
3.25" DIA X 3.8000"
Part No D6104-003

<<<----- SPECIFICATIONS ----->>>
Ga Tol + 0.0000 - 0.0000 Pc/Tag 8
WthTol + 0.0000 - 0.0000 Wt/Skd
LthTol + 0.0630 - 0.0000 Ty Pk
MATERIAL 8 PCS @ 34.8500 EA 278.80
ENERGY & CAP SURCHG 25.0000 LOT 25.00

2 ALUMINUM SHEET 6061 T6 6 PCS 259 LBS
.0640 Nom X 48.0000" X 144.0000"
MATERIAL 6 PCS @ 115.0000 EA 690.00

ADD ON TO 695862 SUR-CHARHE ADDED SHIP COMPLETE

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

*VISIT OUR WEBSITE: www.copperandbrass.com

OUR OFFICES ARE OPEN ON MONDAY, JUNE 30 BUT ARE
CLOSED ON TUESDAY, JULY 1ST.

Order Totals: 2 Items 330 LBS

Page: 1 Continued

23Jun14 15:08 S A L E S A C K N O W L E D G M E N T No: PEC_ST-695864

Sold By:--
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

=====

S A L E S A C K N O W L E D G M E N T SO No PEC ST-695864

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

| Material | Processing | Freight | Other | Taxes | ORDER AMT |
|----------|------------|---------|-------|--------|-----------|
| 968.80 | | | 25.00 | 129.19 | 1,122.99 |

Taxes: ONHSTS 129.19

23Jun14 15:05 S A L E S A C K N O W L E D G M E N T No: PEC ST-695862

Sold By:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Ord 23Jun14 Due25Jun14
Frt PREPAID Via VIM TRANSFER FOB CONCORD
Con 96294 PO/Rel 25701
Slp STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053

=====

S A L E S A C K N O W L E D G M E N T SO No PEC ST-695862

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

| | | |
|---------------------------------------|----------------------|---------|
| 1 STAINLESS STEEL FLAT BAR 17-4 HRAPA | 1 PCS | 101 LBS |
| 1.25 X 2.00 X 144.000" | | |
| MATERIAL | 101 LBS @ 3.9500 LBS | 398.95 |

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

*VISIT OUR WEBSITE: www.copperandbrass.com

OUR OFFICES ARE OPEN ON MONDAY, JUNE 30 BUT ARE
CLOSED ON TUESDAY, JULY 1ST.

Order Totals: 1 Items 101 LBS

| | | | | | |
|----------|------------|---------|-------|-------|-----------|
| Material | Processing | Freight | Other | Taxes | ORDER AMT |
| 398.95 | | | | 51.86 | 450.81 |

Taxes: ONHSTS 51.86

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 17-4 STAINLESS
3.25" DIA X 3.8000"
PART NO. D6104-003

PO/Rel 24701

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-884388-001

25Jun14
Pg 1/1



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 955367 5 Mail To:
THYSSENKRUPP MATERIALS
Customer: 007206 001 2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 6/05/2014 Page: 1

Steel: 630(17-4)

Finish: CF

Your Order: PEC257200

NAS Order: PN 0039342 04

Corrosion:

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S17400, EN 10204 3.1, ASTM A484/11,
ASTM A564/10, AMS 2303, ASME SA564-07, ASTM F899/11 (CHEM ONLY)
AMS 5643T, MACRO OK, SOLUTION ANNEALED @ 1900F FOR 1 HR MIN.
UT per API6A PSL3, ASTM A388-S1 criteria, UT passed

REMARKS:

COMPLIES W/REQUIREMENTS OF D6AR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Product Id | Skid # | Diameter | Size | Weight | -----Length----- | Mark | Pieces | Commodity Code |
|------------|--------|----------|------|--------|------------------|------|--------|----------------|
| BG3712 3 | | 3.2500 | | 1,267 | 144.00 | 2 | 1 | |

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

| HEAT | CM | C % | CB % | CO % | CR % | CU % | MN % | MO % | N % | NI % |
|------|----|-------|-------|-------|---------|--------|-------|-------|-------|--------|
| L6E5 | US | .0173 | .1950 | .1310 | 15.3860 | 3.4020 | .8510 | .1715 | .0361 | 4.1615 |
| | | P % | S % | SI % | TA % | TI % | | | | |
| | | .0250 | .0161 | .2525 | .0050 | .0020 | | | | |

MECHANICAL PROPERTIES

| Product Id | 1 d o i c r | HB No. | Grain No. | Ferrit % | TS-900 KSI | YS-900 KSI | El-900 % 4D | RA-900 % | RC-900 No. | FREQ No. | SEV. No. |
|------------|-------------------|-----------|--------------|-------------|---------------|---------------|----------------|-------------|---------------|-------------|-------------|
| BG3712 3 | R L | 341.00 | 7.00 | .40 | 204.76 | 178.84 | 12.83 | 43.99 | 43.00 | .10 | .10 |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

WJIC HWSG

6/05/2014

Acciaierie Valbruna s.p.a.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Ursine productio

Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14007482
Lieferanweisung/Packing list/B.L.

Ordine nr: 37243 STOCK CAROL STR
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Welding process/Mode d'elaboration

Certificato nr: MEST479195/2014/
Prüfung/Test/Essai

Conferma ordine nr: EI13009898
Werkz./Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Werks/Mark
Trade mark
Sigle de l'usine productrice



Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur



Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

| Colata/Heat Schmelze/Coulee | min - max 0,070 | 1,00 | 1,00 | 15,00 17,00 | 0,50 | 3,00 5,00 | 3,00 5,00 | - | 0,040 | 0,030 | 0,050 | - | - | - | - |
|--------------------------------|------------------------|---------------|------|----------------|------|--------------|--------------|-------|-------|-------|-------|--------|---|---|---|
| C % | Si % | Mn % | Cr % | Mo % | Cu % | Ni % | Co % | P % | S % | N % | Ta % | | | | |
| 262505 | 0,040 | 0,42 | 0,50 | 15,14 | 0,19 | 3,32 | 4,70 | 0,069 | 0,023 | 0,001 | 0,045 | 0,0038 | | | |
| Colata/Heat Schmelze/Coulee | min 0,160 max 0,350 | 5,00 0,350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nb%+Ta% | Cb(Nb)% | | | | | | | | | | | | | | |
| 262505 | 0,284 | 0,280 | | | | | | | | | | | | | |

Material solution annealed 1904F for 1 h,
air cooled to below 90F.

Micro and macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt
The material has been finished in accordance with the requirements
Le matériel a été traité conforme aux exigences

Controllo antimiscelanza: OK
Verwechslungsprüfung: spezialanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 04/03/14

VCC008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotti

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From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403229252

CstAr

CstOr 259378

Wgt.: 107 LB

Date 06/24/2014

John R. Zambetti